

World of Coats *epic*

COATS

epic



POLYESTER
CORESPUN WITH
POLYESTER WRAP

Product Information



Coats *epic* is a polyester-wrapped thread with a polyester filament core. This combination gives maximum tenacity in the threads as both the fibres and the filament contribute to provide high tensile strength. Coats *epic* is ideal where fineness and high seam strength are required and is the best solution for puckering.

Main Uses:

- Fashion apparel
- Blouses and shirts
- Jackets and dress slacks
- Lingerie and swimsuits
- Uniforms and workwear
- Jeanswear
- Various leather articles



Features and Benefits:

- Coats *epic* is a high-tech corespun thread that combines a high tenacity polyester filament core with a polyester fibre wrap to make a versatile and productive thread. Coats *epic* is ideal for delicate garments as well as jeans and workwear
- Specially lubricated to deliver outstanding sewing performance in the most demanding applications
- The high strength polyester filament core allows the use of finer thread sizes, giving better seam appearance without compromising seam strength
- Excellent abrasion resistance makes Coats *epic* ideal for jeans and workwear
- Certified to Öko-Tex Standard 100, class 1, the most stringent class covering babywear

World of Coats

- Coats is the world's leading industrial thread business with a 200 year history of pioneering innovation.
- Providing complementary and value added products and services to the apparel and footwear industries.
- Applying new techniques to manufacture and supply engineered threads and yarns to a wide range of speciality segments.
- With manufacturing plants in over 70 locations and sales and distribution in many more, Coats is uniquely placed to serve your thread needs anywhere in the world.
- Our range of value adding services and tools is being expanded to help customers adapt and meet the challenges of our industry today. For example, the award winning 'Coats Colour Express' sampling service enables a fast and accurate global thread sampling capability and is backed by Coats' well known advanced colour management systems.

One colour range. One specification. Worldwide.

Coats operates to a global specification for Coats *epic* with quality audited by a centrally located team.

www.coatsindustrial.com



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Product Guidelines:

Global Offer Tex No.	Ticket No. (Nm)	Ply	Average Strength		Elongation % Min - Max	Recommended Needle Size*	
			cN	Grams		Singer	Metric
18	180	2	784	799	16 - 23	9 - 11	65 - 75
21	150	2	980	999	16 - 23	9 - 11	65 - 75
24	120	2	1,186	1,209	16 - 23	10 - 14	70 - 90
30	100	2	1,490	1,519	16 - 23	11 - 14	75 - 90
40	80	2	1,965	2,004	16 - 23	14 - 18	90 - 110
60	50	3	3,038	3,098	17 - 25	16 - 19	100 - 120
60	50	2	3,528	3,598	17 - 25	16 - 19	100 - 120
80	40	2	3,940	4,018	17 - 25	16 - 19	100 - 120
105	30	2	4,787	4,881	17 - 25	18 - 21	110 - 130
120	25	3	6,076	6,196	17 - 25	19 - 22	120 - 140
135	20	3	7,154	7,295	17 - 25	19 - 22	120 - 140
150	18	4	8,036	8,194	17 - 25	21 - 23	130 - 160
180	16	4	9,575	9,764	17 - 25	21 - 23	130 - 160
210	12	6	9,800	9,993	19 - 26	21 - 23	130 - 160
240	10	6	14,274	14,555	19 - 26	23 - 25	160 - 200

* Needle size recommendations are a guide only and ultimately depend on the sewing application.
Since conditions and applications vary considerably in the use of thread, the thread user should assure herself or himself by preliminarily testing that the thread is suitable for the end use intended. Technical information listed above is based on current averages and should be taken only as indicative.



Physical and chemical properties of polyester corespun with polyester wrap:

Thermal Properties:

- Melts at 250 - 260°C, softens at 220 - 240°C
- Shrinkage less than 1% @ 150°C

Chemical Properties:

- Mineral acids: Resistant to most mineral acids
- Alkalis: Essentially unaffected by weak alkalis, but less resistant to stronger alkalis, especially at higher temperatures
- Organic solvents: Generally unaffected, but soluble in some phenolic compounds
- Bleaching: Unaffected
- Insects / microorganisms (mildew, rot): Unaffected
- Laundering / dry cleaning: Unaffected
- Moisture regain: 0.4%

Coats epic fastness properties:

- | | | |
|-----------------------------|-------------------------|---------|
| • Washing at 60°C | (ISO 105 C10:2006 C(3)) | Grade 4 |
| • Water Fastness | (ISO 105 E01:2010) | Grade 4 |
| • Rub Fastness | (ISO 105 X12:2001) | Grade 4 |
| • Hypochlorite Fastness | (ISO 105 N01:1993) | Grade 4 |
| • Dry Cleaning Fastness | (ISO 105 D01:2010) | Grade 4 |
| • Perspiration Fastness | (ISO 105 E04:2009) | Grade 4 |
| • Artificial Light Fastness | (ISO 105 B02:1994) | Grade 4 |

These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels.

